PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 28615	FOR FURTHER ACTION as we	see Form PCT/ISA/220 ell as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IL2005/000010	04/01/2005	15/01/2004
Applicant		
ELOP ELECTROOPTICAL INDUST	TRIES LTD.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Aut Insmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	report.
language in which it was filed, unle	international search was carried out on the bases otherwise indicated under this item.	sis of the international application in the lation of the international application furnished to
this Authority (Rul	e 23.1(b)).	
b. With regard to any nucleo	itide and/or amino acid sequence disclosed	in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	
3. X Unity of invention is lack	t ing (see Box III).	
4. With regard to the title,		
X the text is approved as sub	omitted by the applicant.	
the text has been establish	ned by this Authority to read as follows:	
	·	
5. With regard to the abstract,	emitted by the applicant	
the text is approved as sub	ned, according to Rule 38.2(b), by this Authorit	v as it appears in Box No. IV. The applicant
may, within one month from	n the date of mailing of this international search	ch report, submit comments to this Authority.
6. With regard to the drawings,	•	
	iblished with the abstract is Figure No3_	
as suggested by the	ne applicant.	
	Authority, because the applicant failed to sug	
	Authority, because this figure better characte	rizes the invention.
b none of the figures is to be	published with the abstract.	

International application No. PCT/IL2005/000010

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6

A constant current power supply for a laser diode comprising means to protect an attached laser diode from over-current spikes.

2. claims: 7-15

A power supply for charging a capacitive load comprising an inductance connected in series with the capacitive load and feedback means for controlling the series impedance of the capacitive load and the inductance to maintain the charging current of the capacitive load at a predetermined level.

International Application No

PCT/IL2005/000010 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01S5/068 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01S Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, INSPEC, COMPENDEX, IBM-TDB C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 2003/063641 A1 (JOHNSON RONALD E) 1,3,5 3 April 2003 (2003-04-03) figure 5 paragraph '0005! - paragraph '0008! paragraph '0029! - paragraph '0031! 2,4,6 US 4 872 080 A (HENTSCHEL ET AL) 2,4,6 3 October 1989 (1989-10-03) abstract; figure 2 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to *L* document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the "O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docuother means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 1 2, .09, 05 26 August 2005 Name and mailing address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Meacher, D

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Fax: (+31-70) 340-3016

International Application No PCT/IL2005/000010

ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
ANONYMOUS: "Improved driver circuit for semiconductor laser" RESEARCH DISCLOSURE, KENNETH MASON PUBLICATIONS, HAMPSHIRE, GB, vol. 249, no. 4, January 1985 (1985-01), XP007109683 ISSN: 0374-4353 the whole document	2,4,6
HANKS R L ET AL: "Integrated power conditioning for laser diode arrays" 1995 PULSED POWER CONFERENCE. ALBUQUERQUE, JULY 3 - 6, 1995, PULSED POWER CONFERENCE, NEW YORK, IEEE, US, vol. Vol. 2, 3 July 1995 (1995-07-03), pages 928-933, XP010227789 ISBN: 0-7803-2791-8 page 929	1,6
US 4 074 334 A (D"ARRIGO ET AL) 14 February 1978 (1978-02-14) figure 2	1,6
EP 0 596 357 A (EASTMAN KODAK COMPANY) 11 May 1994 (1994-05-11) figure 1	1,6
LIPPINCOTT A C ET AL: "A CAPACITOR-CHARGING POWER SUPPLY USING A SERIES-RESONANT TOPOLOGY, CONSTANT ON-TIME/VARIABLE FREQUENCY CONTROL, AND ZERO-CURRENT SWITCHING" IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, IEEE INC. NEW YORK, US, vol. 38, no. 6, 1 December 1991 (1991-12-01), pages	7,8,11
438-447, XP000275832 ISSN: 0278-0046 abstract; figures 2,3 page 440, right-hand column, line 9 - line 25	
POLLOCK H: "Constant frequency, constant currentload-resonantcapacitor charging power supply" IEE PROCEEDINGS: ELECTRIC POWER APPLICATIONS, INSTITUTION OF ELECTRICAL ENGINEERS, GB, vol. 146, no. 2, 10 March 1999 (1999-03-10), pages 187-192, XP006013357 ISSN: 1350-2352 page 189, right-hand column - page 190, left-hand column; figures 3,4	7,8,11
	ANONYMOUS: "Improved driver circuit for semiconductor laser" RESEARCH DISCLOSURE, KENNETH MASON PUBLICATIONS, HAMPSHIRE, GB, vol. 249, no. 4, January 1985 (1985-01), XP007109683 ISSN: 0374-4353 the whole document HANKS R L ET AL: "Integrated power conditioning for laser diode arrays" 1995 PULSED POWER CONFERENCE. ALBUQUERQUE, JULY 3 - 6, 1995, PULSED POWER CONFERENCE, NEW YORK, IEEE, US, vol. Vol. 2, 3 July 1995 (1995-07-03), pages 928-933, XP010227789 ISBN: 0-7803-2791-8 page 929 US 4 074 334 A (D"ARRIGO ET AL) 14 February 1978 (1978-02-14) figure 2 EP 0 596 357 A (EASTMAN KODAK COMPANY) 11 May 1994 (1994-05-11) figure 1 LIPPINCOTT A C ET AL: "A CAPACITOR-CHARGING POWER SUPPLY USING A SERIES-RESONANT TOPOLOGY, CONSTANT ON-TIME/VARIABLE FREQUENCY CONTROL, AND ZERO-CURRENT SWITCHING" IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, IEEE INC. NEW YORK, US, vol. 38, no. 6, 1 December 1991 (1991-12-01), pages 438-447, XP000275832 ISSN: 0278-0046 abstract; figures 2,3 page 440, right-hand column, line 9 - line 25 POLLOCK H: "Constant frequency, constant currentload-resonantcapacitor charging power supply" IEE PROCEEDINGS: ELECTRIC POWER APPLICATIONS, INSTITUTION OF ELECTRICAL ENGINEERS, GB, vol. 146, no. 2, 10 March 1999 (1999-03-10), pages 187-192, XP006013357 ISSN: 1350-2352 page 189, right-hand column - page 190,

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International Application No PCT/IL2005/000010

	JMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.	
ategory ° Citation of	document, with indication, where appropriate, of the relevant passages	Helevant to claim No.	
HALF IEEE IEEE VOl. 174- ISSN	GERWALD R L: "A COMPARISON OF -BRIDGE RESONANT CONVERTER TOPOLOGIES" TRANSACTIONS ON POWER ELECTRONICS, INC. NEW YORK, US, 3, no. 2, April 1988 (1988-04), pages -182, XP000858941 I: 0885-8993 whole document	7-15	

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Information on patent family members

International Application No
PCT/IL2005/000010

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2003063641	A1	03-04-2003	NONE		
US 4872080	Α	03-10-1989	DE	3331132 C1	07-02-1985
			JP	1684467 C	31-07-1992
			JP	3048674 B	25-07-1991
			JP	60068683 A	19-04-1985
US 4074334	A	14-02-1978	IT	1049596 B	10-02-1981
			DE	2642146 A1	31-03-1977
			FR	2325193 A1	15-04-1977
			GB	1514400 A	14-06-1978
			JP	1486062 C	14-03-1989
			JP	52059834 A	17-05-1977
			JP	61055803 B	29-11-1986
EP 0596357	A	11-05-1994	US	5276697 A	04-01-1994
			DE	69322484 D1	21-01-1999
			DE	69322484 T2	24-06-1999
			EP	0596357 A1	11-05-1994
			JP	2716654 B2	18-02-1998
			JP	6227036 A	16-08-1994